

Title (en)
Hand held spray gun with top mounted paint cup

Title (de)
Handelsprühpistole mit einem an ihrem Oberteil montierten Behälter

Title (fr)
Pistolet de pulvérisation avec réservoir sur sa partie supérieure

Publication
EP 0678334 B1 20020306 (EN)

Application
EP 95302522 A 19950413

Priority
US 22965194 A 19940419

Abstract (en)
[origin: EP0678334A2] A hand held spray gun (25) having a top mounted fluid cup (26) which extends from the rear of a gun body (29) at an angle of 30 DEG + 10 DEG to an axis (37) about which the atomized fluid is discharged. A retainer ring (36) secures a lid (35) on the cup. The lid (35) seals to both the inside and the outside of the cup (26). The double seals reduce the risk of fluid leakage. Preferably, the gun (25) operates with suction feed which is augmented by gravity feed when fluid in the cup (26) is located above a nozzle assembly on the gun. To facilitate cleaning and to allow the gun (25) to spray in an upward direction, the fluid may be sealed in a collapsible closed bag (83) located in the cup (26). With the closed bag (83) and the suction feed, the gun (25) will operate when aimed in all directions. The gun (25) is easily cleaned by forcing solvent from the nozzle assembly (27) back into the bag (83) and disposing of the bag (83) containing any remaining fluid and the used solvent. <IMAGE>

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B05B 7/24

IPC 8 full level
B05B 7/24 (2006.01); **B05B 15/02** (2006.01)

CPC (source: EP US)
B05B 7/2413 (2013.01 - EP US); **B05B 7/2478** (2013.01 - EP US); **B05B 7/2481** (2013.01 - EP US); **B05B 15/55** (2018.02 - EP US); **Y10S 239/14** (2013.01 - EP US)

Cited by
EP1415719A1; EP1579922A1; EP1611960A1; WO9832539A1; FR2958189A1; CN102281956A; CN111589662A; EP1808235A3; EP2771127A4; CN107262308A; EP0987060A1; FR2783440A1; FR2958188A1; EP1961488A3; US10035156B2; US10702879B2; US8297536B2; US6942126B2; EP2090373A3; EP2105208A3; CN102802807A; EP1435265A3; RU2509611C1; AU2011207724B2; EP3078426A1; WO2011090857A1; WO2004052552A1; WO2011121551A3; USD835235S; US6820824B1; US7810744B2; US9878336B2; US10882064B2; WO2005077543A1; WO2010084140A1; WO2011121552A3; US7172139B2; US7083119B2; US9782785B2; US9782784B2; US9796492B2; US10315787B2; US10835911B2; US11826771B2; US11865558B2; US9427757B2; US10464076B2; US11707753B2; WO2011121552A2; US9238240B2; DE202017101120U1; EP2090372A2; EP1961488A2; EP2105208A2; EP1435265A2; US9079201B2; US10695778B2; EP2090373A2; US11801521B2; US6938836B2; US7845582B2; US10189037B2; US10471449B2; US11040360B2; US11141747B2; US11548018B1; US11679399B2; EP3077124B1

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